

TopsTek Current Transducers TD25A-SP1 .. TD400A-SP1

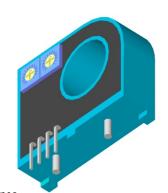
TD 25A~400A-SP1

Features

- ◆ High reliability Hall effect device
- ◆ Compact and light weight
- Quick response speed (7 μsec)
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ Excellent frequency response (> 50 KHz)
- ◆ Low power consumption (12 mA nominal)
- ◆ Capability of measuring both DC, AC, pulsed and Mixed
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC2.5KV)
- ◆ Extended operating temperature range
- ◆ Flame-Retardant plastic case and silicone encapsulant, using UL classified materials, protect against environmental contaminants and vibration over a wide temperature and humidity range

Applications

- ♦ UPS systems
- ♦ Industrial robots
- ♦ NC tooling machines
- ◆ Controller of elevators
- ◆ Process control devices
- ◆ AC and DC servo systems
- ◆ Speed controller of motors
- ◆ Controller of electrical vehicles
- ◆ Inverter-controlled welding machines
- ◆ General and special purpose inverters◆ Power supply of laser processing machines
- ◆ Controller of traction equipment such as electric trains
- ◆ Other automatic control systems



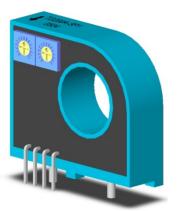
Specifications

Parameter	Symbol	Unit	25A	50A	75A	100A	125A	150A	175A	200A	250A	300A	400A
Nominal Input Current	I _{fn}	A DC	25	50	75	100	125	150	175	200	250	300	400
Linear Range	I _{fs}	A DC	±75	±150	±225	±300	±375	±450	±525	±600	±750	±900	±1000
Nominal Output Voltage	V_{hn}	V	4 V±2% at If=I _{fn} (R _L =10k Ω)										
Offset Voltage	Vos	mV	Within ±35 mV @ I _f =0, T _a =25°C										
Output Resistance	Rout	Ω	<100 Ω (50 Ω nominal)										
Hysteresis Error	V_{oh}	mV	Within ±35 mV @ I _f =I _{fn} →0										
Supply Voltage	V _{CC} /V _{EE}	V	± 15V ±5%										
Linearity	ρ	%	Within ±1% of I _{fn}										
Consumption Current	Icc	mA	±12 mA nominal, ±15 mA max										
Response Time (90%V _{hn})	T _r	μsec	7 μsec max. @ $d I_f / dt = I_{fn} / \mu sec$										
Frequency bandwidth (-3dB)	f _{BW}	Hz	DC to 50kHz										
Thermal Drift of Output	-	%/°C	Within ±0.05 %/℃ @ I _{fn}										
Thermal Drift of Zero Current Offset	-	mV/°C	Within ±1.5 mV/°C @ I _{fn}										
Dielectric Strength	-	V	AC2.5KV X 60 sec										
Isolation Resistance @ 1000 VDC	R _{IS}	МΩ	>1000 MΩ										
Operating Temperature	Ta	°C	-15 °C to 80 °C										
Storage Temperature	Ts	°C	-20 °C to 85 °C										
Mass	W	g	28 g										



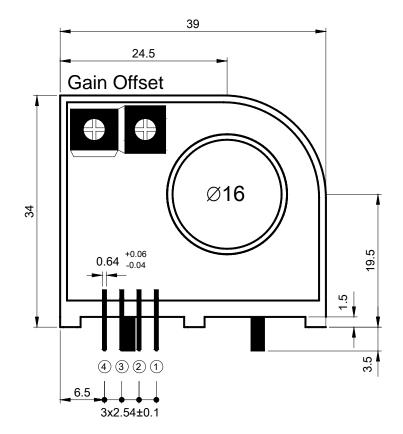
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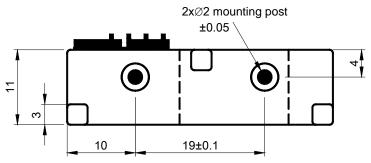
Appearance, dimensions and pin identification All dimensions in mm ± 0.5 , holes -0, +0.2 except otherwise noted

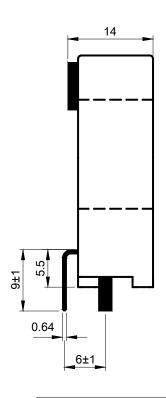




TD200A-SP1 08321







Pin Assignment					
1	+15V				
2	-15V				
3	Vouт				
4	0V				